DRILL HOLES

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SHEET REV. DATE: JAN 1, 2004

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (E. BALTIMORE ST.) AND BAUMGARDNER ROAD IN CARROLL COUNTY.
MD 140 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 140 AND A CONCURRENT PEDESTRIAN PHASE ACROSS BAUMGARDNER ROAD

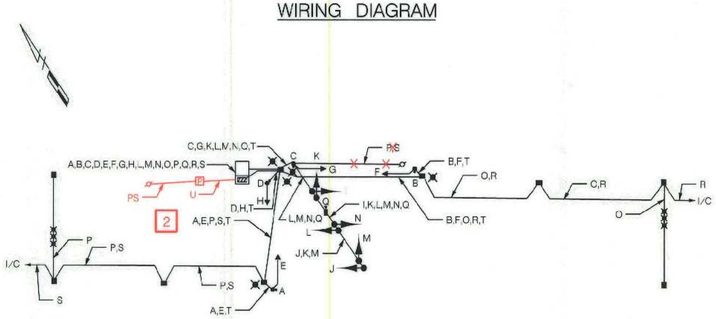
CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND ONE (1), FOUR-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION EQUIPMENT HOUSED IN A BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

WIRING DIAGRAM



NOTE: ADEQUATE WIRE SHALL BE PROVIDED TO ALLOW SIGNAL HEAD RELOCATION DURING MAINTENANCE OF TRAFFIC.

WIRING KEY

A-D	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E-K	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
L-N	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
O-P	MICRO-LOOP PROBE LEAD-IN
Q	VIDEO DETECTION CABLE
R-S	12-PAIR VOICE GRADE INTERCONNECT CABLE CABLE
T	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
PS	PROPOSED ELECTRIC SERVICE
✱	GROUND ROD
ML	MICRO-LOOP PROBE
U	1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) 3-WIRE

2

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
971017	1 EA	BASE MOUNTED CABINET AND CONTROLLER
973023	57 SF	SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING:
		1 EA - D3-2 DUAL FACE SIGN (VAR. X 16") - MAST ARM MOUNT
		1 EA - M95-1/D3-2 SIGN (72" X 40") - MAST ARM MOUNT
		2 EA - W3-3 SIGN (36"X36") WITH "NEW" PANEL (24" X 24") - GROUND MOUNT
900000	1 EA	VIDEO INTERFACE EQUIPMENT
993010	1 EA	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER - RACK MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
203030	4 CY	TEST PIT EXCAVATION
585620	220 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
585624	60 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
816005	3 EA	FURNISH AND INSTALL 250 FT. VIDEO DETECTION CABLE
800000	4 EA	FURNISH AND INSTALL 16 IN. COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	18 EA	FURNISH AND INSTALL 12 IN. L.E.D. VEHICULAR SIGNAL HEAD SECTION
2 ~~807410~~	~~1 EA~~	~~FURNISH AND INSTALL ELECTRIC SERVICE UTILITY EQUIPMENT - 120/240 VOLTS, 200 AMPS~~
800000	1 EA	FURNISH AND INSTALL 16.5 FT. MAST ARM POLE AND 60 FT. MAST ARM (15 FT. "T" DIMENSION)
800000	3 EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE
800000	4 EA	FURNISH AND INSTALL AUDIBLE-TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
810601	2 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
816001	3 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
805135	40 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
801004	10 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
800000	64 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS (4 IN. X 4 IN.)
802501	180 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
805150	90 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
805155	530 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
810010	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
811001	9 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
800000	5 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
86'105	260 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)
86'107	320 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
86'108	260 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
671202	1 EA	INSTALL BASE MOUNTED CABINET AND CONTROLLER
813014	26 SF	INSTALL GROUND MOUNTED SIGN
813015	31 SF	INSTALL OVERHEAD SIGN
860265	18 EA	RELOCATE EXISTING SIGNAL HEADS (DURING MAINTENANCE OF TRAFFIC)
2 805140	100 ~~30~~ LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
800000	1 EA	FURNISH AND INSTALL 2-WIRE CENTRAL CONTROL UNIT
2 807202	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 624-8147

MR. RAY JOHNSON
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 624-8105

MS. ANDREA ABEND
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 624-8110

CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

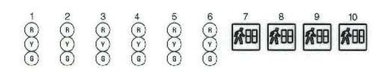
MS. DAFLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

CONTACT FOR THE POWER COMPANY

ALLEGHENY POWER
P.O. BOX 1392
FAIRMONT, WV. 26554
(304) 367-3370

PHASING CHART



	1	2	3	4	5	6	7	8	9	10
PHASE 2 & 6	G	G	G	G	R	R	WK	WK	DW	DW
PED CLEAR	G	G	G	G	R	R	FL-DW	FL-DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	DW	DW	DW	DW
4 CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	G	G	DW	DW	WK	WK
PED CLEAR	R	R	R	R	G	G	DW	DW	FL-DW	FL-DW
4 ALT CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	DARK	DARK	DARK	DARK

2 REDLINE REVISION NO. 2
2008
8/28/2008

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 140 (E. BALTIMORE ST.) AND BAUMGARDNER AVE.
TANEYTOWN, MD

SCALE	NONE	DATE 9-26-07	CONTRACT NO. CL6955184
DESIGNED BY	T. ZAYDEL	COUNTY	CARROLL
DRAWN BY	T. ZAYDEL	LOGMILE	06014020.78
CHECKED BY	K. SCHMID	T.I.M.S. NO.	H 545
F.A.P. NO.	N/A	TOD NO.	
DRAWING NO.	TS4547-GI	SHEET NO.	199 OF